

LISTING OF THE CLAIMS:

The following is a listing of claims (none of which are amended by this document):

1. (CANCELLED)

2. (Previously Presented) The method of claim 23,
wherein the quality parameter can assume one of a plurality of pre-defined values, a first value indicating that a frequency is occupied, a second value indicating that a frequency is not occupied, and a third value indicating that a frequency might be occupied.

3. (Previously Presented) The method according to claim 23,
wherein the quality parameter can assume any value between a lower quality border value and an upper quality border value.

4. (Previously Presented) The method according to claim 23,
wherein in act c) only those frequencies are selected to which quality parameters satisfying a threshold condition are allocated.

5. (Previously Presented) The method according to claim 23,
wherein at least act a) is performed during a normal transmission mode.

6. (Previously Presented) The method according to claim 23,
wherein at least act a) is performed prior to a normal transmission mode.

7. (Previously Presented) The method of claim 23,
wherein at least act a) is performed by a separate monitoring device in
communication with at least one of an access point and a central controller (CC) of the
wireless communication system.

8. (Previously Presented) The method of claim 23,
further comprising communicating the allocated quality parameters to an access
point or a central controller of the same or a neighboring wireless communication system.

9. (Previously Presented) The method of claim 23,
wherein, if at least one of the radar interference signal or other interference signals
is detected in act d), repeating acts a) to c).

10. (Previously Presented) The method to claim 23,
wherein during regular operation receive/transmit pauses are artificially created.

11. (Previously Presented) The method of claim 23,
wherein act d) comprises periodically monitoring one or more of the selected
frequencies to assess an average quality thereof.

12. (Original) The method of claim 11,
further comprising transmitting on the one or more frequencies having the highest
average quality.

13. (Previously Presented) The method of claim 12,
wherein after a predefined period of time the method returns to act a).

14. (Original) The method of claim 13,
wherein for a specific transmission frequency the predefined period of time is selected in dependence on the quality parameter previously allocated to this transmission frequency.

15. (Previously Presented) The method of claim 13,
wherein the predefined period of time is selected additionally in dependence on a system traffic load or the transmission quality of the currently used transmission frequency.

16. (Previously Presented) The method of claim 23, wherein prior to switching from a first transmission frequency to a second transmission frequency, the second transmission frequency is subjected to at least acts a) and b).

17. (CANCELLED)

18. (Previously Presented) The computer program product of claim 29, stored on a computer readable recording medium.

19. (CANCELLED)

20. (Previously Presented) The wireless communication system of claim 30, comprising a monitoring device (MD) associated with or remote from at least one of an access point (AP) or a central controller (CC),
wherein the monitoring device (MD) includes at least the first unit.

21. (CANCELLED)

22. (CANCELLED)

23. (Currently Amended) A method of controlling frequency selection in a wireless communication system, the method comprising

a) assessing plural frequencies with respect to a radar interference signal;

b) allocating a quality parameter to each assessed frequency, the allocated

quality parameter being selected from more than two values used to express the quality parameter allocated to the assessed frequency, the quality parameter indicating a probability that the frequency is occupied by the radar interference signal;

c) selecting one or more of the plural frequencies in dependence on the

allocated quality parameters for use by the wireless communication system; and

d) further assessing one or more of the plural frequencies with respect to a radar interference signal, wherein measurement for each assessed frequency is adapted to the quality parameter value allocated to the respective frequency.

24. (Currently Amended) The method of claim 23, further comprising

performing act a)¹⁾ for a time period that corresponds to at least one typical radar pulse period.

25. (Currently Amended) The method of claim 23, further comprising

performing act a)¹⁾ for a time period of substantially ten seconds.

26. (Currently Amended) The method of claim 23, further comprising

performing act a)¹⁾ for a time period of from approximately four seconds to approximately twenty seconds.

27. (Previously Presented) The method of claim 23, wherein the system is a High Performance Radio Local Area Network.

28. (Previously Presented) The method of claim 23, wherein the system is an IEEE 802.11a/h system.

29. (Currently Amended) A computer readable medium storing a computer program executable by a processor for performing the acts of :

- a) assessing plural frequencies in a wireless communication system with respect to a radar interference signal;
- b) allocating a quality parameter to each assessed frequency, the allocated quality parameter being selected from more than two values used to express the quality parameter allocated to the assessed frequency, the quality parameter indicating a probability that the frequency is occupied by the radar interference signal;
- c) selecting one or more of the plural frequencies in dependence on the allocated quality parameters for use by the wireless communication system; and
- d) further assessing one or more of the plural frequencies with respect to a radar interference signal, wherein measurement for each assessed frequency is adapted to the quality parameter value allocated to the respective frequency.

30. (Currently Amended) A wireless communication system comprising:

- a) a first unit configured to assess plural frequencies with respect to a radar interference signal;
- b) a second unit configured to allocate a quality parameter to each assessed frequency, the allocated quality parameter being selected from more than two values used to express the quality parameter allocated to the assessed frequency, the quality parameter indicating a probability that the frequency is occupied by the radar interference signal;
- c) a third unit configured to select one or more of the plural frequencies in dependence on the allocated quality parameters for use by the wireless communication system; and

d) a fourth unit configured to assess further one or more of the plural frequencies with respect to a radar interference signal, wherein measurement for each assessed frequency is adapted to the quality parameter value allocated to the respective frequency.

31. (Previously Presented) The method of claim 23, further comprising further assessing the one or more of the plural frequencies selected in act c) with respect to transmission quality.

32. (Previously Presented) The computer program product of claim 29 which further performs the act of further assessing the one or more of the plural frequencies selected in act c) with respect to transmission quality.

33. (Previously Presented) The system of claim 30, wherein the fourth unit is further configured to assess the one or more of the plural frequencies selected by the third unit with respect to transmission quality.